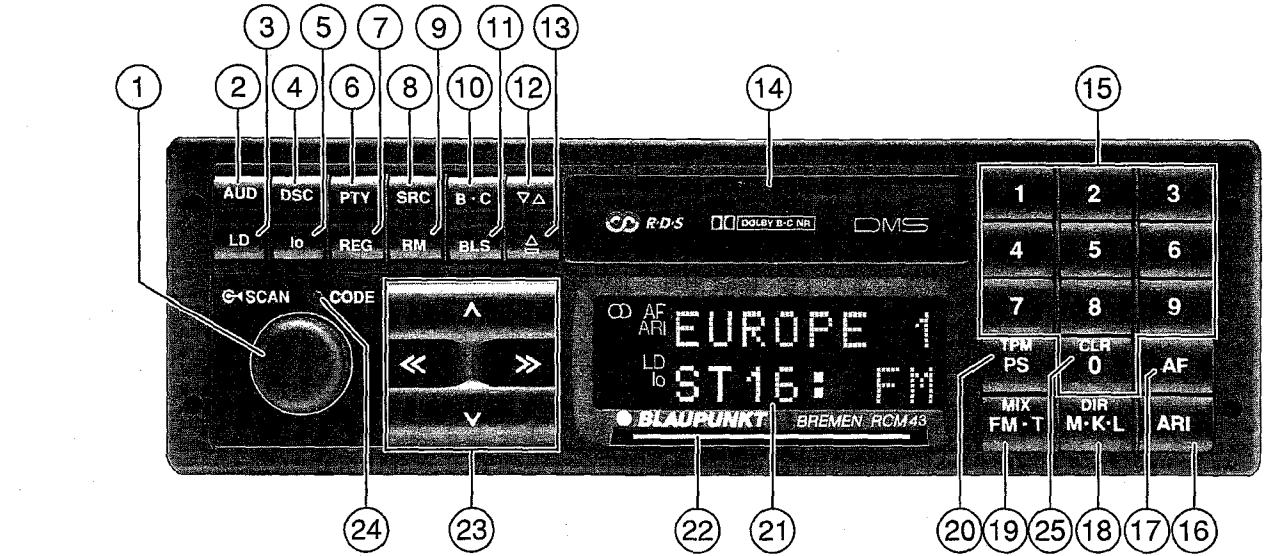
BLAU-03069

Operation Instructions

Bremen RCM 43

BLAUPUNKT

Bosch Telecom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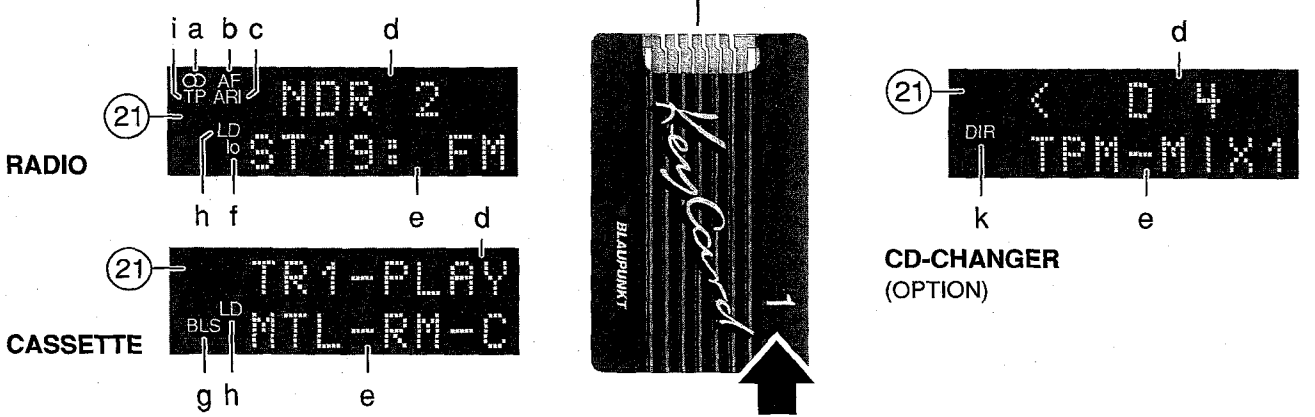
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CD-CHANGER
(OPTION)

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Front Panel Description

① **ON/OFF**
Switch on the set by turning the knob.
Volume control:
by turning the knob
SCAN:
Scan is activated by pressing the knob ① for more than 1 second.
Radio: The stations are sampled for approximately 8 seconds.
Tape: The titles are sampled for approximately 10 seconds.

② **AUD** button
Pressing the AUD button once:
Treble: Adjust the reproduction of the high frequencies with rocker switch ∧/∨.
Bass: Adjust the reproduction of the low frequencies with rocker switch <</>>.
Pressing the AUD button twice:
Balance: Adjust the left/right volume with rocker switch <</>>.
Fader: Adjust the front/rear volume with rocker switch ∧/∨.

③ **LD** button (**Loud**ness)
Press this button to boost the bass frequencies at low volumes.

④ **DSC** button (**D**irect **S**oftware **C**ontrol)
This button is used to programme the DSC functions of your car radio.

⑤ **lo** button
Use this button to change the seek tuning sensitivity.
When the lo button is pressed, the "Local" mode (normal seek tuning sensitivity) is activated.
Switching from stereo to mono and vice versa: Press for more than 2 but less than 8 seconds.

⑥ **PTY** button
To activate the PTY mode.
In the PTY mode the 10-key keypad ⑮ is used to choose the programme type.

⑦ **REG** button
To activate the regional function.
"REG ON" lights up in display ㉑ d.

⑧ **SRC** button (**Sourc**e)
This button is used for shifting from one audio source to another, e.g. tape ♦ radio ♦ CD changer (option).

⑨ **RM** button (**R**adio **M**onitor)
Use this button to listen to the radio while advancing or rewinding the tape.

⑩ **Dolby B/C** button (sequence switch)
Press this button to activate Dolby B/C. Press again to switch Dolby noise reduction off.

⑪ **BLS** button (Blank Skip)
Use this button to skip blank sections of the tape. As soon as a blank section of more than 15 seconds is detected during tape playback, the cassette is automatically forwarded to the end of the tape or to the beginning of the next track.

⑫ **Reverse** button
Automatic switchover from one side of the tape to the other.

⑬ **Eject** button
Press this button to eject the tape.

⑭ **Cassette slot**

⑮ **10-key keypad**
FM presets = 19
Travelstore (separate level)
TS = 9
MW = 9
KW = (SW) = 9
LW = 9

Radio: direct entry of frequency
Tape: direct title selection when the CPS function is activated.

⑯ **ARI** button
Use this button to listen to traffic stations only. When the function is activated, display ㉑ c indicates "ARI".

⑰ **AF** button (**A**lternative **F**requency)
Press this button to let the set automatically search for an alternative frequency which offers better reception of the same programme (display ㉑ b).

⑱ **M•K•L / DIR** button (sequence switch)
Use this button to shift between medium wave (MW), short wave (SW) and long wave (LW) frequencies.
DIR - linear sound reproduction.

⑲ **FM•T / MIX** button
This button is used for shifting between the different individual FM storage level and T (**T**ravelstore).
MIX - reproduction of the CD tracks in an arbitrary order.

⑳ **PS / TPM** button (**P**reset Station **S**can / **T**rack **P**rogramme **M**emory)
Pressing this button briefly samples all memorised stations of the selected waveband.
Button pressed: The stations are sampled for 8 seconds each.
Quit the function by pressing the button again.
TPM - Storing titles from one or more discs.

㉑ **Display** for
a) Stereo reception
b) AF - Alternative Frequency
c) Reception of ARI traffic stations
d) Frequency/station name
e) Station preset/waveband
f) lo - local
g) BLS - Blank Skip
h) LD - Loudness
i) TP - Traffic Programme
k) DIR - Direct
You can choose the indications to be displayed either in German, English or French. Please read through the chapter "Programming with DSC", item "PTY".

㉒ **KeyCard slot**

㉓ **Multifunction rocker switch**

Radio: Automatic station seek by pressing the ∧/∨ buttons.
Manual seek tuning by pressing the <</>> buttons (no muting).
Tape: CPS function by pressing the ∧/∨ buttons. Fast forwarding (FF) or rewinding (FR) the tape by pressing the <</>> buttons.

㉔ **Code-LED**

㉕ **0/CLR** button
CLR: Memorised TPM settings are cleared.

Important notes

What you must know!

Before operating your new car radio, you should carefully read through the safety notes and the information about the "KeyCard".

Safety notes

As driver of a motor vehicle you should dedicate your full attention to the traffic around you. Therefore always use your car stereo so that you are able to cope with the prevailing traffic conditions at all times.
In difficult driving situations you should turn your set off. Please bear in mind that at a speed of 50 km/h you are covering a distance of almost 14 m per second!
When adjusting the volume always make sure that all acoustic signals from outside the car can still be heard so that you can react to warning signals as is required by the prevailing conditions.
Before mounting or expanding the unit, you should read through the enclosed mounting and connecting instructions.
Do not connect the loudspeaker outputs to ground!
Use only the accessories and replacement parts approved by Blaupunkt.

Due to the high output power of the output stage, the metal housing of the set may heat up considerably. Therefore never touch this metal enclosure when removing the unit.

KeyCard

This car radio cannot be operated unless the personal KeyCard is inserted. Therefore, other people cannot make use of your set. Since it is not possible to utilise the unit with another KeyCard, it will be of no worth at all for a thief - provided that the KeyCard was removed before.
This set is supplied with 2 KeyCards for which you can programme and recall different individual DSC settings.

Wrong KeyCard

If a wrong KeyCard is inserted, four dashes are first represented in the display ("----") before the indication changes to "CARD ERR" after approximately 10 seconds. During this period the set cannot be operated even with the right KeyCard.

- Remove the wrong card. Now the correct card must be inserted.

After the third wrong try the unit shuts down for one hour before it can be further operated. In the meantime, "----" is indicated in the display.

After 16 attempts to enter the correct code the unit shuts off permanently and must be decoded by one of our authorised service partners on presentation of the car radio pass.
Switching the car radio off during the waiting period will set the waiting time to 'zero' after the unit has been activated again.

KeyCard lost

Should you have lost your personal KeyCard or should the card has been damaged, contact an authorised service centre for help. Take the radio pass with you.
These service centres are all listed in the Car Radio Centre Register (▭). Please contact the Central Service Centre of your country for more detailed information on the next specialised KeyCard service centre in your vicinity.

Amplifier section

Radio Data System (RDS) with EON

An increasing number of FM radio stations use the Radio Data System to broadcast an inaudible data signal along with the actual programme. This signal contains a lot of information and offers you more operating convenience.
Your Blaupunkt radio automatically processes this information. The transmitted data is used to

- detect and indicate the station and its name (e.g. BBC R1),
- automatically search and switch over to an alternative frequency offering better reception of the tuned in programme (AF - Alternative Frequency),
- detect traffic stations,
- interrupt a national programme with traffic infos from your local station, and return to the national programme afterwards (RDS EON), and to
- put through traffic messages during CD operation (ARI priority).

ON/OFF

To switch the set on,

- turn button ① clockwise and
- insert the KeyCard ㉒ completely.

Your car radio is now ready for operation.

To switch the set off,

- turn button ① counterclockwise or
- remove the KeyCard ㉒.

First push in the KeyCard (to release it) and then take it out of the slot.

Controlling treble and bass

Bass control

To control the low frequencies:

- Press the AUD button ② once.
  Using the multifunction rocker switch <</>> ㉓ you can change the bass value between -14 and +14 in steps of 2 dB. The system will stop at "0".

To store the value:

- Press the AUD button ② again.

Treble control

To control the treble frequencies:

- Press the AUD button ② once.
  Using the multifunction rocker switch ∧/∨ ㉓ you can change the treble value between -12 and +12 in steps of 2 dB. The system will stop at "0".

To store the value:

- Press the AUD button ② again.

Balance and fader

Balance control

To balance the sound of the left and right channel:

- Press the AUD button ② twice.
  Using the multifunction rocker switch <</>> ㉓ you can change the value between LEFT 9 and RIGHT 9.

To store the value:

- Press the AUD button ② again.

Fader control

To balance the sound of the front and rear channel when using a 4-speaker system:

- Press the AUD button ② twice.
  Using the multifunction rocker switch ∧/∨ ㉓ you can change the value between FRONT 9 and REAR 9.

To store the value:

- Press the AUD button ② again.

If no more buttons are pressed after the last adjustment, the display automatically returns to the indication of the radio or CD functions.

Loudness

At low volumes the human ear shows reduced sensitivity to low frequencies, while medium and high frequencies can be perceived better.
The loudness function compensates this phenomenon by boosting the low frequencies.
To activate or deactivate the loudness:

- Press the LD button ③.

When the loudness function is activated, "LD" is shown in display ㉑ h. You can individually programme the loudness intensity (see chapter "Programming with DSC").

When listening to an FM station we generally recommend to make use of the RDS service.

As soon as a station has been identified, its station name - possibly together with a regional identifier - will be indicated in the display, e.g. "BBC R1".
With RDS the preset buttons are turned into programme buttons. You will then always know which programme you are currently listening to, which makes it a lot more convenient to select your desired programme.

AF - Alternative Frequency

The AF function (**A**lternative **F**requency) takes care that the frequency offering the best reception of the selected programme is always tuned in automatically.
When the function is activated, "AF" lights up in display ㉑ b.
To switch the AF function on and off:

- press the AF button ⑰.

During the search operation for the best frequency the radio is muted for a short while.

REG - Regional programmes

Use the REG button ⑦ to switch the Regional function on and off. Certain stations do not always broadcast the same programme on all frequencies but sometimes "split" to enable regional networks to present their own programmes for specific areas.

If you are receiving a regional programme and wish to keep on listening to it:

- press the REG button ⑦.

Display ㉑d will show "REG ON", and the set will automatically switch to AF (Alternative Frequency). Switch off the function by pressing the REG button once again ("REG OFF").

Selecting the waveband

With your car radio you can select between the following wavebands: FM (ultra-short wave; frequency-modulated), MW (medium wave), SW (short wave), and LW (long wave).

Selecting FM

- Briefly press the FM•T / Mix button ⑲. "FM" lights up in display ㉑ e.

Selecting MW

- Briefly press the M•K•L / DIR button ⑱. "MW" lights up in display ㉑ e.

Selecting SW

- Briefly press the M•K•L / DIR button ⑱. "KW" lights up in display ㉑ e.

Selecting LW

- Briefly press the M•K•L / DIR button ⑱. "LW" lights up in display ㉑ e.

Unless otherwise stated, the following operating notes apply to all wavebands.

Automatic tuning

Tuning in the following station

- Press the upper part of the rocker switch ∧/∨ ㉓.
  The car radio automatically starts searching for the next station.

Tuning in the previous station

- Press the lower part of the rocker switch ∧/∨ ㉓.
  The car radio automatically starts searching for the previous station.
  If the rocker switch ∧/∨ ㉓ up/down is kept depressed, the seek tuning operation continues quickly in the corresponding direction.

Manual tuning

All stations can also be manually tuned in:

- Press the rocker switch <</>> ㉓ on the left or the right. The frequency changes in small steps.

Direct entry of the frequency

Your Blaupunkt radio allows you to enter the frequency directly by pressing the **0/DIR** button ㉕ first and then using the 10-key keypad to specify the respective frequency (without keying in the comma). When pressing the **0/DIR** button ㉕ without making further entries, the display will return to the original mode after approximately 3 seconds.
This function can be used on all wavebands.

Adjusting the seek tuning sensitivity

This set allows you to modify the seek tuning sensitivity.
If you wish to seek for powerful stations only (reduced sensitivity):

- Press the lo button ⑤ until "lo" illuminates in display ㉑ f.

Should you also wish to seek for weaker stations (increased sensitivity):

- Press the lo button ⑤ once again. "lo" goes out.

The sensitivity level can be varied in either of the two modes (see chapter "Programming with DSC").

Switching from stereo to mono and vice versa

- To switch to mono press the lo button ⑤ for more than 2 seconds.
  The stereo symbol in display ㉑ a goes out.
- To switch back to stereo press the lo button ⑤ once again for more than 2 seconds.

When the set is switched on, the stereo mode is always activated.

Memorising a station

This set allows you to occupy as many as 19 presets on the FM level and to store an additional number of 9 stations on the TS level.
Besides that, on the MW, SW and LW level 9 stations can be stored each.

- Tune in a station (see sections "Automatic tuning/Manual tuning").
- Press the respective preset button ⑮ until the radio resumes play again (takes approximately 2 seconds). For two-digit preset positions press the second digit until the programme becomes audible again.

In display (21) e the currently selected preset position lights up. Now the station is stored.

Automatically storing the strongest stations

(Travelstore)
With Travelstore you have the opportunity to automatically store the 9 strongest FM stations of your respective region and have them sorted according to their signal strength. This feature is of special use while travelling.

- Press the FM•T / Mix button (19) for at least 2 seconds.
  The set searches for the strongest FM stations and sorts them on the 'T' storage level (Travelstore). Once the process is finished, the car radio automatically plays the strongest station stored on preset preset 1.
  For RDS stations, only the strongest frequency will be stored once.

If required, it is also possible to manually store stations on the Travelstore level. If less than 9 stations can be received, the free buttons are represented by dashes for a short while.

Activating a stored station

The memorised stations can be activated whenever required at the push of a button.

- Choose the corresponding storage level FM, TS, MW, KW or LW.
- Then press the respective preset button (15).
  When activating a two-digit preset position, the second digit has to be entered within 2 seconds after the "1".

Sampling memorised stations with PS (Preset Scan)

This car radio allows you to briefly sample all memorised stations of a waveband.

- Press the TPM / PS button (20).
  "PRESET SCAN" lights up in display (21) d, e.

The set starts sampling one after another all memorised stations of the activated waveband. Display (21) indicates the frequency or station name, the preset position and the storage level.

Briefly sampling a station

(Radio Scan)
You can let the set briefly sample one after another all stations to be received in the tuned in waveband for approximately 8 seconds each.

- Press the Scan knob (1) for approximately 1 second.
  Display (21) e indicates "SCAN". If the following station is found, it is reproduced for approximately 8 seconds. The station's frequency or its name starts blinking in display (21) d; if it has already been memorised, the corresponding preset button also lights up in display (21) e. The set subsequently starts searching for the next station.

To keep on listening to a sampled station:

- Press the Scan knob (1) once again.
  The Scan function is off.

If no station is selected during the search operation, the radio starts playing the station where Scan has been started before.

Preset Naming

The PNS (Preset Naming) feature allows you to individually assign a station name to a preset button. However, this is not possible for stations which have been tuned in auto-

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matically with seek tuning. For more information on how to programme this function see chapter "Programming with DSC".

PTY

The PTY signal is transmitted along with the RDS data telegram and contains information on the programme type. Programme types e.g. are: news, current affairs, information, sport, etc. This enables you to choose a certain type of programme according to your individual requirements. Test programmes are currently aired in some European countries. With PTY you are prepared for the future of RDS.

- Press the PTY button (6).

You can now use the preset buttons to choose certain programme types (1 = news, 2 = current affairs, 4 = sport, 10 = pop music, etc.). At the moment, as many as 15 programme types are defined. In the PTY mode the preset buttons no longer have their original function!

PTY and seek tuning

First switch on the PTY mode and choose a programme type (e.g. 4 = sports). When the seek tuning function is activated it will only capture those stations which transmit the selected PTY code. If no such station is found, the radio returns to the original mode with display (21) e giving you "NO SPORT" for approximately 3 seconds.

PTY and Scan

First switch on the PTY mode and choose a programme type (e.g. 4 = sports). When the Scan function is activated, only stations which transmit this PTY code will be sampled.

PTY and FM•T (Travelstore)

First switch on the PTY mode and choose a programme type (e.g. 4 = sport). When activating the TS function, the unit will assign the strongest station offering the selected programme type to the corresponding key of the 10-key keypad. As soon as a programme type is selected via the keypad (15), the set will immediately start playing the memorised station or start seek tuning in case the PTY code has been changed by the station in the meantime or is no longer existing.

Traffic messages (ARI) and RDS (EON)

Many FM stations broadcast the current traffic messages for their coverage area at regular intervals. Your car radio detects these traffic stations and indicates the TP (Traffic Programme) code in display (21) i. This makes it possible to mute your set or listen to a cassette and at the same time be prepared to listen to an incoming traffic info.

EON (Enhanced Other Networks)

The RDS data telegram also contains information about the station of a radio network offering traffic information.

If you are listening to a programme without traffic information (e.g. BBC2), your set will automatically interrupt it with the traffic infos from the traffic station of the same network (e.g. BBC1), and return to the initial programme (BBC2) afterwards. Traffic messages are 'put through' at a preset volume the level of which can be individually programmed (see chapter "Programming with DSC"). The set automatically interrupts tape playback and resumes play as soon as the message is over.

Tape section

Activating ARI traffic messages

Press button (16) to activate the recognition of traffic messages. "ARI" will then light up in display (21) c. When receiving a station which does not transmit the ARI code (TP), the set sends out an audible alarm after approximately 4 seconds. In this case tune in to another station (offering traffic infos). When pressing the ARI button while listening to an MW, SW or LW station, the unit will automatically switch over to an FM traffic station.

Audible alarm

When leaving the coverage area of the tuned in traffic station, your car radio automatically releases an audible alarm after approximately 30 seconds.

This alarm tone will also be sent out when pressing a preset button on which a station without traffic service is stored.

To switch off the audible alarm,

- search for a new station (see chapter "Tuning in a station automatically"). The set will then start searching for the next traffic station.

Inserting/removing the tape

- Switch on the set.
- Insert the cassette halfway into the slot with side 1 or A up and without applying force.

The cassette will be loaded automatically; the sets starts to play the side which was played last.

Display (21) d either shows you "TR1 PLAY" or "TR2 PLAY".

Once the end of the cassette is reached, the set automatically switches to the other side (Autoreverse).

To stop tape play:

- Press the Eject button (13).
  The cassette will be ejected automatically.

Autoreverse

If you want to change to the other side of the cassette during tape playback:

- Press the reverse button (12).

The display indication (21) d e.g. changes from TR1-PLAY to TR2-PLAY (TR=TRack).

Note:

When using stiff-going cassettes, the set may switch over to the other side although this is not desired. When this happens check the tape wound up so far; fast forwarding or rewinding it helps in many cases.

Fast forwarding and rewinding the tape

Fast forwarding the tape (FF)

- Press the FF rocker switch >> (23).
  Display (21) d shows e.g. "TR1-FF".
  Having reached the end of the tape the set automatically starts to play the reverse side.

Stopping fast forward operation

- Briefly press the FR rocker switch << (23).

Fast rewinding the tape (FR)

- Press the FR rocker switch << (23).
  Display (21) d e.g. shows "TR1-FR".
  Once fast rewinding is finished, the same side will start to play automatically.

Stopping fast rewind operation

- Briefly press the FF rocker switch >> (23).

Skipping/repeating tracks - SUPER CPS

The CPS function (Cassette Program Search) of this car radio is able to detect the beginning of the taped songs. It can be used to fast forward the tape to the next one or to rewind it to the beginning of the current song.

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To skip one track:

- Press the multifunction rocker switch ㉓ ∧ or ∨.
  Display ㉑ d indicates "TR1 FF1" or "TR1 FR1". Having reached the beginning of the next song, FF or FR stops and the song is played.

To skip several tracks at a time:

- Press the multifunction rocker switch ㉓ ∧/∨ e.g. five times, or press the rocker switch ㉓ once and then button 5 of the 10-key keypad ⑮ within 2 seconds. Display ㉑ d shows "TR1 FF5" or "TR1 FR5". FF or FR stops after the fifth title. You can skip up to 9 tracks.

To listen to a title once again, i.e. rewinding the tape to the beginning of the current track:

- Press the multifunction rocker switch ∨ ㉓.

You can still repeat the previous track within the first 8 seconds of playback time of the current one. Once FF or FR is finished, the next or last track is played. It is only possible to skip or repeat songs if the in-between blanks are at least 3 seconds long.

Scan

This function allows you to briefly sample the taped songs one after another in the given order of the tape for approximately 8 seconds each. Having sampled a song the set fast forwards the tape to the beginning of the next title and plays it for a short while.
To activate Scan:

- Press the Scan knob ① for more than 1 second.
  "TR1 SCAN" lights up in display ㉑ d.

Then the tape is fast forwarded and the next song is sampled.
If you like a track and wish to keep on listening to it:

- Press the Scan knob ① once again.

Scan is now off.

Tape selector

This equipment automatically detects the type of tape used (Metal, CrO_2, Fe_2O_3). When using metal or CrO_2 tape, "MTL" lights up in display ㉑ e.

Dolby B/C (DD)

This set allows you to play cassettes which have been recorded a) with Dolby B-NR, b) with Dolby C-NR, and c) without Dolby.
Cassettes recorded with Dolby NR* distinguish by their reduced background noise and the improved dynamic characteristics. Dolby C-NR is a further development of Dolby B-NR and reduces the noise level even more.
To activate Dolby-NR:

- Press the Dolby B/C button ⑩.
  Display ㉑ e shows "B" for Dolby B-NR.
- Press the Dolby B/C button ⑩ once again.
  Display ㉑ e shows "C" for Dolby C-NR.

To switch Dolby off press the button once again.

* Noise reduction system manufactured under license from Dolby Laboratories. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories.

BLS

"BLS" stands for Blank Skip, i.e. automatically fast forwarding the tape in order to skip blank sections of the tape.
If you buy pre-recorded tapes, the playback time of the two sides differs in many cases, so that one side often has a long blank section at the end of the tape.

Programming with DSC

BLS detects any blank section longer than 15 seconds and automatically starts to fast forward the tape.
BLS is activated if "BLS" illuminates in display (21) g. During the actual skip process display (21) d shows "BLANK SKIP".
To activate/deactivate Blank Skip:

- press the BLS button (11).

RM

RM stands for **R**adio **M**onitor - radio reception during rapid tape run.
When the tape is fast forwarded or rewound, the radio is normally muted.
If you want to listen to the radio during rapid tape run (also with SCAN, CPS, BLS):

- Press the RM button (9); "RM" lights up in display (21) e.

During FF, FR, CPS and SCAN display (21) e shows you the radio functions.

SRC (Source)

Use this button to select between cassette or radio reproduction with the cassette being inserted.
Change the source by

- pressing the SRC button (8).

The car radio's DSC function (Direct Software Control) allows you to match numerous adjustments and functions to your personal needs and to store these individual settings. DSC stands for the intelligent adaption of the Bremen RCM 43 to the specific technical requirements in your vehicle. DSC offers programming options for the following menu items with the respective feedback information given in the display.

Menu item	Display indication
Intensity of low frequencies/front speakers	BASS FRONT
Intensity of low frequencies/rear speakers	BASS REAR
Intensity of high frequencies/front speakers	TREBLE FRONT
Intensity of high frequencies/rear speakers	TREBLE REAR
Audible signal after actuation of a button for more than 2 seconds	BEEP ON/OFF
Hours of tape drive operation	TAPE ... h
Code-LED 0 (LED off) 1 (LED flashes when the KeyCard is out)	CODE LED 1, 0
Disc naming	DISC NAMING
Display colour red or green	DISPLAY-COLOUR
Owner identification	OWNER ID
Loudness level	LOUDNESS LEVEL ...
Preset Naming System (PNS)	PRESET NAMING
Programme type recognition	SET PTY
PTY language selection (German, English, French)	PTY ENGLISH
Delete TPM memory	TPM UPDATE
CD playback time ON/OFF	TRACK TIME ON/OFF
Seek tuning sensitivity for Local mode	LOCAL LEVEL 1, 2, 3
Seek tuning sensitivity for Distant mode	DX LEVEL 1, 2, 3
ARI message volume	ARI LEVEL 1 – 9

The DSC function is activated through the DSC button ④. Use the multifunction rocker switch ㉓ ∧/∨ to select the individual menu items. Once having reached the last item and pressing the upper part of the rocker switch, the systems returns to the first item. Use the rocker switch ㉓ << / >> to change the setting of the selected DSC item.

The last setting is automatically stored. Quit the DSC function by pressing button ④ once again.

Bass Front

The bass frequencies are separately adjusted for the front and rear speakers.

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Use the rocker switch ㉓ << / >> to choose a value between -6 and +6.

The adjustment is carried out in steps of 2 dB. All sound adjustments set through the AUD button ② are automatically set to zero. The Loudness is switched off!

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Bass Rear

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "BASS REAR" is shown in display ㉑ d,e
- Use the rocker switch ㉓ << / >> to choose a value between -6 and +6.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Treble Front

The treble frequencies are separately adjusted for the front and rear speakers.

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "TREBLE FRONT" is shown in display ㉑ d,e
- Use the rocker switch ㉓ << / >> to choose a value between -6 and +6.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Treble Rear

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "TREBLE REAR" is shown in display ㉑ d,e
- Use the rocker switch ㉓ << / >> to choose a value between -6 and +6.

The adjustment is carried out in steps of 2 dB. All sound adjustments set through the AUD button ② are automatically set to zero. The Loudness is switched off!

If the TREBLE Front/Rear and BASS Front/Rear values are set to zero, you have available the entire control range when using the AUD button ②.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

BEEP

To activate/deactivate the beep tone after the actuation of a button:

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "BEEP ON/OFF" is shown in display ㉑ d, e.

- Use the rocker switch (23) << / >> to activate the beep ("BEEP ON") or deactivate it ("BEEP OFF").

To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

Clean

Clean Timer (hours of operation or cleaning indication)
After more than 50 hours of tape deck operation "CLEAN" will light up in display (21) d each time a cassette is inserted. Display (21) e indicates the playback time for approximately 8 seconds ("TAPE 50h").
All major tape deck components such as the audio head, the capstan shafts, pinch rollers, etc. should then be carefully cleaned.
The clean timer can register a maximum playback time of 99 hours before it has to be reset.
To clear the display indication:

- Press the DSC button (4).
  Display (21) d shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "CLEAN" is shown in display (21) d, e.
  Display (21) e indicates the total playback time, e.g. "TAPE 52h".

To delete this time indication

- press the 0/DIR button for more than 2 seconds.

To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

Code-LED

When parking your vehicle the set allows you to let a light-emitting diode flash (24) in order to give a visual indication that this equipment is theft-protected.

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "CODE LED" and a number (0 or 1) is shown in display (21) d, e.
- Use the rocker switch (23) << / >> to change the setting.
  LED 0 - Diode does not flash.
  LED 1 - Diode flashes when the Key-Card is out.

To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

Disc Naming

Use this function if you have connected and activated a Blaupunkt CD changer CDC-A03 or CDC-F03.
You can name a maximum of 99 discs in 10 magazines.

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "DISC NAMING" is shown in display (21) d, e.
- Then choose a disc using the 10-key keypad (15).
  Display (21) d, e shows "TOC" and the Track-Time indication.
- Use the << / >> rocker switch (23) to activate the Disc Naming mode and select a character.
- Press the Scan knob (1) to move the cursor to the next character. To move the cursor back to the previous character press the Scan knob (1) for more than 2 seconds. Then choose the next disc.

To modify or delete a name:

- Activate the Disc Naming mode and change the old name, or press the clear button to delete it and write a new one.

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To finish the entry:

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Display colour

To change the display colour:

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "DISPLAY-COLOUR" is shown in display ㉑ d, e.
- Use the rocker switch ㉓ << / >> to change the display colour and the set's night design from red to green and vice versa.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Owner ID

This function enables the entry of an additional owner identification, e.g. the vehicle's license number.
When switching the set on without the Key-Card being inserted, display ㉑ d shows "CARD" for approximately 5 seconds. The indication then changes to the owner ID (display ㉑ e).
The set switches off after approximately 10 seconds.

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "OWNER-ID" is shown in display ㉑ d. After 3 seconds the display indication changes to the entry mode; the first digit blinks.
- Use the rocker switch ㉓ << / >> to select either a letter (A-Z), a number (0-9), the dash, the dot, the asterisk or a blank character. You can quickly go through the choice of characters by keeping the button depressed.
- Use the Scan knob ① to move to the next digit. When pressing the knob for more than 2 seconds the cursor is moved to the left.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Loudness

To change the loudness intensity:

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "LOUDNESS" is shown in display ㉑ d.
- Use the rocker switch ㉓ << / >> to choose a loudness intensity value between LEVEL 1 and LEVEL 6. When adjusting the loudness the changing intensity can be heard even if the loudness is off.

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

Preset Naming

Use this function to write the station name in plain text into the display instead of its frequency. For this, the station has to be stored on one of the preset buttons (15).

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "PRESET NAMING" is shown in display (21) d. After 3 seconds the display indicates the frequency; the first digit blinks.
- Now choose the corresponding preset button (15) to activate the station to be named.
- Use the rocker switch (23) << / >> to select either a letter (A-Z), a number (0-9), the dash, the dot, the asterisk or a blank character. You can quickly go through the choice of characters by keeping the button depressed.
- Use the Scan knob (1) to move to the next digit. When pressing the knob for more than 2 seconds the cursor is moved to the left.

The setting is automatically stored as soon as a new preset button (15) or the DSC button (4) is pressed, or if another DSC function is selected (use the rocker switch (23) ∧/∨).
If the tuned in programme is aired by an RDS station, the RDS station name always has priority over the Preset Naming function. When pressing the respective preset button, the station name specified through Preset Naming will only be briefly indicated for a second before the RDS identifier is shown!
To change the station name indication:

- Activate the Preset Naming function.
- Press the corresponding preset button.
- Overwrite the station name.

To delete a station name:

- Leave the DSC mode and store the station again.

SET PTY

To individually allocate programme types to the 10-key keypad (e.g. sport, current affairs, rock music, pop music, etc.):

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "SET PTY" is shown in display (21) d.
- Use the rocker switch (23) << / >> to choose a programme type (e.g. rock) and keep the respective preset button (15) depressed for at least 3 seconds (the system sends out a beep signal).

When activating a two-digit preset position, the second digit has to be entered within 2 seconds after the "1".
You can reset the allocation to the original mode at any time by selecting the "DEFAULT" PTY code and allocating it to a preset button of your choice.
To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

PTY

To select a language for the PTY indications in the display.

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "PTY" is shown in display (21) d.
- Use the rocker switch (23) << / >> to choose either German, English or French.

To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

TPM (Track Programme Memory)

Important:
For a successful TPM UPDATE it is essential to connect a CD changer to the set and to activate it through the SRC button.

TPM UPDATE

With your set you can store a maximum number of 99 discs with up to 24 titles each in the TPM memory. If the memory is full, this function allows you to clear part of it. All CDs used in the following procedure will remain in the memory; all other discs are cleared.

- Load the magazine containing all discs to be remained in the TPM memory.
- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "TPM UPDATE" is shown in display ㉑ d, e.

After approximately 3 seconds the set starts reading the individual discs. When all discs have been read in, display ㉑ d, e prompts the user to "LOAD.NEXT MAGAZINE". You can now load the next magazine.

Quit TPM UPDATE

- Press the TPM button ⑳ for more than 2 seconds until the radio resumes play again or a beep tone is released.
- The display shows you the number of the loaded disc followed by "READY".
- Press the DSC button or select another DSC function (use rocker switch ㉓ ∧/∨).

Important:
Should you wish to interrupt the TPM-UPDATE, switch the set off.

TRACK TIME

To set the time indication in the CD mode for all titles stored in the TPM memory.

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "TRACK" is shown in display ㉑ d.
- Use the rocker switch ㉓ << / >> to set the display to "TIME ON" or "TIME OFF".

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

LOCAL

To choose the seek tuning sensitivity for the "local" mode:

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "LOCAL" is shown in display ㉑ d.
- Use the rocker switch ㉓ << / >> to choose a value between level 1 and level 3.
  Level 1 = high sensitivity
  Level 3 = low sensitivity

To memorise the setting,

- press the DSC button ④ once again or select another DSC function (use rocker switch ㉓ ∧/∨).

DX

To choose the seek tuning sensitivity for the "distant" mode:

- Press the DSC button ④.
  Display ㉑ d, e shows "BASS FRONT".
- Press the rocker switch ㉓ ∧/∨ until "DX" is shown in display ㉑ d.
- Use the rocker switch <</>> 23 to choose a value between level 1 and level 3.
  Level 1 = high sensitivity
  Level 3 = low sensitivity

To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

ARI

To change the volume of the ARI traffic messages:

- Press the DSC button (4).
  Display (21) d, e shows "BASS FRONT".
- Press the rocker switch (23) ∧/∨ until "ARI" is shown in display (21) d.
- Use the rocker switch (23) << / >> to choose a value between level 1 and level 9.
  Level 1 = low volume
  Level 9 = high volume

The volume of the traffic messages now corresponds to the adjusted value. Note: Traffic messages are only reproduced through the front pair of speakers. During the message, the rear speakers are muted.
To memorise the setting,

- press the DSC button (4) once again or select another DSC function (use rocker switch (23) ∧/∨).

Important note:
It might happen that the set does not work properly when it is connected to a CD changer (wrong function, wrong display indication, pushing a button has no effects). In this case briefly switch the set off and on again. The changer then returns to the normal play mode.

Selecting a new track/disc
After having activated your Blaupunkt CD changer by pressing the SRC button, you can control it through the multifunction rocker switch (23).
When a CD is loaded, the display briefly shows you the number of tracks and the total playback time of the disc.

Selecting a new track

- Select the track by pressing the rocker switch ∧/∨ (23) as *many times as required or* enter the respective track number through the keypad (15) and confirm with rocker switch ∧/∨ (23).
  The track number is shown in display (21) d, e. When pressing the ∨ button (23) after the current track has already been played for more than 3 seconds, the changer returns to the beginning of this track. If the ∨ button (23) is pressed within the first 3 seconds of a track, the changer will return to the beginning of the previous track.
- Press the ∧ button (23) to jump to the beginning of the next track.
- If the ∧/∨ rocker switch is pressed for more than 1 second, the set starts to cue/review the disc as long as the button is kept depressed.

Selecting a new disc

- Select the disc by pressing the rocker switch << / >> (23) or enter the respective disc number directly through the keypad (15) and confirm with rocker switch << / >> (23).

CD Scan
The Scan function allows you to briefly listen to all tracks of a disc. When pressing the Scan knob (1) the set starts sampling all tracks one after another for approximately 10 seconds each. Display (21) e then shows "CD-SCAN". If the Scan knob (1) is activated within the first 10 seconds of playback time, it will not start the Scan function until the 10 seconds have been elapsed.
There are different ways to interrupt the Scan function before the end of the disc is reached:

ENGLISH

- By pressing the Scan knob ① once again. The changer continues to play the current track.
- By activating the multifunction rocker switch ㉓. The changer plays another track or changes to a new disc.
- By pressing the AUD or DSC button. The changer continues to play the current title.

Mix

When the Mix function is activated, the CD titles are played at random. With the changer types CDC-A03 and CDC-F03 you can choose between two different Mix functions. For the changer types CDC-M1 and CDC-M3 only the "Mix 1" function is available.

- Press the Mix button briefly (< 2 seconds); function Mix 1 is activated. Display ㉑ e shows "Mix 1" for approximately 5 seconds.
  In this case only the titles of the individual disc inserted in the magazine are played at random. When all tracks of a disc have been played, the set starts to play the titles of the next one.
- Press the Mix button for more than 2 seconds; function Mix 2 is activated. Display ㉑ e shows "Mix 2" for approximately 5 seconds.
  The titles of all discs including all titles are played at random.

TPM (Track Programme Memory)

The TPM function allows you to select and store up to 24 titles each of a maximum number of 99 discs. When this function is activated, only the titles programmed with TPM will be reproduced in ascending order or played at random if the Mix function is on. Display ㉑ d, e then indicates "<".

To programme a title:

- Select the desired track.
- Press the TPM button for more than 2 seconds. The title is stored as soon as the radio resumes play again or a beep tone is released.

Note:

Each title can only be stored once. Chapter "DSC, TPM-UPDATE" describes how to clear the TPM memory.

CLEAR TPM

With the CLR button you can either clear individual tracks, single discs or the entire TPM memory.

- Switch on the TPM function.

Clearing a title from the TPM memory

- Select the title to be cleared and press the CLR button for more than 2 seconds. Display ㉑ d, e shows e.g. "CLEAR TRACK 10".

  Note:
  Do not press the CLR button for more than 8 seconds, since otherwise the entire disc programming would be cleared from the TPM memory!

Clearing a disc from the TPM memory

- Select the disc to be cleared and press the CLR button for more than 8 seconds. Display ㉑ d, e shows e.g. "CLEAR DISC 10".

  Note:
  Do not press the CLR button for more than 16 seconds, since otherwise the entire magazine would be cleared from the TPM memory!

Appendix

Clearing a magazine from the TPM memory

- Load the magazine to be cleared and press the CLR button for more than 16 seconds. Display (21) d, e shows "CLEAR MAGAZINE".

  Note:
  Do not press the CLR button for more than 24 seconds, since otherwise the entire TPM memory would be cleared!

Technical data

Amplifier

Output power:	4 x 7 W or 2 x 26 W acc. to DIN 45324/3.1

FM:

Sensitivity:	0.9 µV at 26 dB signal-to-noise ratio
Frequency response:	30 - 16,000 Hz (-3 dB)
Selectivity:	> 80 dB at ± 300 kHz > 40 dB at ± 200 kHz
Crosstalk attenuation:	> 35 dB at 1kHz

Tape:

Frequency response:	30 - 18,000 Hz (-3 dB) (constant)
Wow-and-flutter:	0.2 % typ.
S/N ratio for	
Dolby C:	72 dB typ.
Dolby B:	64 dB typ.
without Dolby:	56 dB typ.

What to do if your car radio needs service

Whenever your car radio fails to perform properly, please refer to an authorised service centre. Be sure to bring the car radio passport and the KeyCard along with you.

ENGLISH

Subject to modifications!